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NEWS	2	Jan 25	BLAST(R) searching in REGISTRY available in STN on the Web
NEWS	3	Jan 29	FSTA has been reloaded and moves to weekly updates
NEWS	4	Feb 01	DKILIT now produced by FIZ Karlsruhe and has a new update frequency
NEWS	5	Feb 19	Access via Tymnet and SprintNet Eliminated Effective 3/31/02
NEWS	6	Mar 08	Gene Names now available in BIOSIS
NEWS	7	Mar 22	TOXLIT no longer available
NEWS	8	Mar 22	TRCTHERMO no longer available
NEWS	9	Mar 28	US Provisional Priorities searched with P in CA/CAPLUS and USPATFULL
NEWS	10	Mar 28	LIPINSKI/CALC added for property searching in REGISTRY
NEWS	11	Apr 02	PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
NEWS	12	Apr 08	"Ask CAS" for self-help around the clock
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NEWS	14	Apr 09	ZDB will be removed from STN
NEWS	15	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	16	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	17	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	18	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	19	Jun 03	New e-mail delivery for search results now available
NEWS	20	Jun 10	MEDLINE Reload
NEWS	21	Jun 10	PCTFULL has been reloaded
NEWS	22	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS EXPRESS			February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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53 FILES SEARCHED...

77 FILES SEARCHED...
L1 6882 CELLULOSE (W) PAPER

=> s l1 (5A) cellulase
42 FILES SEARCHED...

L2 9 L1 (5A) CELLULASE

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L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1

AN 1999:339436 CAPLUS

DN 130:339604

TI **Cellulase-resistant cellulose paper**, film or casing, paper manufacture and composition

IN Lacoste-Bourgeacq, Jean-Francois; Jon, Shui-Chung

PA Viskase Corporation, USA

SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 914772	A2	19990512	EP 1998-309122	19981106
	EP 914772	A3	19990616		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6083581	A	20000704	US 1997-968939	19971112
PRAI	US 1997-968939	A	19971112		

AB A cellulose food casing exterior surface, and preferably also the interior surface, is coated with (a) .gtoreq.1 protein having an acidic isoelec. point, preferably .beta.-lactoglobulin and (b) .gtoreq.1 cationic thermosetting resin having epoxy groups, such as a resin product of (i) an epichlorohydrin and (ii) .gtoreq.1 polyamide, polyamine, polyamine-polyamide or a blend thereof, to provide improved resistance to degrdn. by enzymes. The coating can also be applied to a cellulosic paper or film, preferably for use as or in a food package, i.e. sausage casing. The coating may be applied as a blend of (a) and (b) or as (b) followed by (a).

L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS

AN 1999:312062 CAPLUS

DN 131:89201

TI Cellulase catalyzed hydrolysis of cellulose materials: pH and temperature profiles

AU Van Wyk, Jacobus P. H.

CS Department of Chemistry and Biochemistry, Medical University of Southern Africa, 0204, S. Afr.

SO Resource and Environmental Biotechnology (1999), 2(3), 249-254

CODEN: REBIFD; ISSN: 1358-2283

PB A B Academic Publishers

DT Journal

LA English

AB Cellulose (I), a major component of paper products, consists of glucose (II) units linked by means of .beta.-D-1,4-glucosidic bonds. Insol. I can be hydrolyzed by cellulase (III), a multi-component enzyme, to produce sol. sugars, e.g. II. Paper products form a major section of org.-based waste, and its saccharification with III from *Penicillium funiculosum* was investigated. Optimum pH and temp. values for action of III from *P. funiculosum* on filter paper (pH 4.5; 55.degree.), foolscap paper (pH 5.5; 50.degree.), newsprint (pH 6.5; 55.degree.) and microcryst. I (pH 4.5; 50.degree.) were detd. The saccharification of these I substrates at optimum pH and temp. values revealed that the III-complex from *P. funiculosum* is the most active on foolscap paper, followed by filter paper, newsprint, and microcryst. I.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS

AN 1997:536948 CAPLUS

DN 127:192067

TI Production of cellulose paper pulps by biodelignification of vegetable masses and apparatus used therein

IN Giovannozzi Sermanni, Giovanni; Cappelletto, Pier Luigi; Baldo, Ruggero; Perani, Claudio; Porri, Antonio; D'annibale, Alessandro

PA Consiglio Nazionale delle Ricerche, Italy; Universita' Degli Studi della Toscana; Giovannozzi Sermanni, Giovanni; Cappelletto, Pier Luigi; Baldo, Ruggero; Perani, Claudio; Porri, Antonio; D'annibale, Alessandro

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----		-----	-----	-----
PI	WO 9728306	A1	19970807	WO 1997-EP424	19970131
	W: CA, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2244464	AA	19970807	CA 1997-2244464	19970131
	EP 877839	A1	19981118	EP 1997-902276	19970131
	EP 877839	B1	20011010		
	R: AT, BE, DE, DK, ES, FR, GB, GR, IT, NL, SE, PT, IE, FI				
	AT 206778	E	20011015	AT 1997-902276	19970131
	ES 2162239	T3	20011216	ES 1997-902276	19970131
	AU 739537	B2	20011018	AU 1997-32427	19970731
	AU 9732427	A1	19990211		
	US 6379495	B1	20020430	US 1998-117499	19981019
PRAI	IT 1996-MI160	A	19960131		
	WO 1997-EP424	W	19970131		

AB Process for the prodn. of cellulose paper pulps from vegetable masses, comprising the steps of mixing and conditioning a vegetable mass suitable to form a culture medium with an inoculum constituted of edible ligninolytic mushrooms, such as *Lentinus edodes*, *Pleurotis perypngii*, *Psajor-caju*, and the like; extg. the so-obtained enzyme and adding it to the vegetable material for the prodn. of paper pulp, mainly constituted of cultivated annual plants such as kenaf, hemp, flax, cotton and various stems and/or agricultural-industrial residues, such as cereal straws, maize stalks, and the like; conditioning and causing the mass to react; and lastly washing the mass after the biol. attack, obtaining in this way a cellulose pulp to be submitted to possible mild final cooking and bleaching treatment. The app. comprises a tower for the sterilization of

the mass suitable to form the culture medium; a first screw for mixing the sterilized mass with inoculum and handling of the same in a sterile environment; a first conditioning and reaction chamber provided with means suitable for mixing and handling the inoculated mass in a sterile environment and controlled atm. of CO₂ and O₂, with controlled temp. and pH; a hydraulic pulper for the elementarization of the mass and its soaking up with the suspensions of enzyme mixes; a hammer mill for the elementarization of the vegetable material, to break up the knots of the stems and pulverize the leaves, detach bast from wood, etc.; a rotating tumbler provided with reels and counter reels for sepg. the various fractions; a rotor compactor to reduce the vol. of the vegetable mass and to remove the greatest part of the air contained in the same; a second screw for mixing the compacted vegetable mass with the exts. contg. the enzymes and possibly with water for its handling in a sterile environment; a second conditioning and reaction chamber provided with means for mixing and handling the vegetable mass mixed with the enzymes in a sterile environment and controlled atm. of CO₂ and O₂, with controlled temp. and pH: app. of known type for cooling and bleaching cellulose pulps, as well as for the disposal of refluents.

L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2002 ACS

AN 1997:251119 CAPLUS

DN 126:239795

TI Polymer molecules and materials, e.g. cellulose and paper, improvement by binding with protein-linked effector moieties

IN Bates, Robert; Greenaway, Stephen David; Hardman, David John; Huxley, Margaret; Slater, James Howard

PA Hercules Inc., USA; Bates, Robert; Greenaway, Stephen David; Hardman, David John; Huxley, Margaret; Slater, James Howard

SO PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9707203	A1	19970227	WO 1996-GB2009	19960816
	W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
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	CA 2229358	AA	19970227	CA 1996-2229358	19960816
	CA 2229588	AA	19970227	CA 1996-2229588	19960816
	AU 9667502	A1	19970312	AU 1996-67502	19960816
	EP 845031	A1	19980603	EP 1996-927804	19960816
	R:	DE, FR, GB, SE, PT, FI			
	CN 1199421	A	19981118	CN 1996-197613	19960816
	CN 1199439	A	19981118	CN 1996-197614	19960816
	JP 11510701	T2	19990921	JP 1996-509064	19960816
PRAI	GB 1995-16766	A	19950816		
	WO 1996-GB2009	W	19960816		

AB The invention relates to methods and compns. for improving the fluid, elec. or strength properties of a polymer mol. or material by binding an effector moiety to the polymer via a protein. The invention particularly relates to improving the properties of paper by binding thereto a moiety capable of conferring a property such as improved wet strength, dry strength or sizing, via a protein such as a cellulase capable of binding to cellulose in the paper. Glutaraldehyde-crosslinked cellulase and cellulase conjugates with abietic acid increased the strength of paper.

Elec. cond. of paper was affected by gold-labeled streptavidin and biotinylated cellulase.

L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1997:459679 CAPLUS
DN 127:96738
TI Hydrolysis of cellulose materials during successive treatment with cellulase from *Penicillium funiculosum*
AU Van Wyk, Jacobus P.H.; Botha, Anita C.
CS Department of Chemistry and Biochemistry, Medical University of Southern Africa, 0204, S. Afr.
SO Biotechnology Letters (1997), 19(7), 687-689
CODEN: BILED3; ISSN: 0141-5492
PB Chapman and Hall
DT Journal
LA English
AB Cellulase (I) from *Penicillium funiculosum* exhibited different hydrolysis tendencies when acting on various cellulosic materials. Successive addn. of fresh I to enzymically pre-treated substrates showed foolscap paper to be the most susceptible for enzymic hydrolysis, followed by filter paper, newsprint, and microcryst. cellulose.

L3 ANSWER 6 OF 7 WPINDEX (C) 2002 THOMSON DERWENT
AN 1986-258238 [39] WPINDEX
DNC C1986-111666
TI Unclogging drainage pipes blocked with cellulose paper - by addn. of thickened compsn. contg. cellulase and gum.
DC A97 D16 F09
IN DURHAM, D; FODGE, D W; GLICK, J L; SWANN, W E
PA (GEMX) GENEX CORP
CYC 1
PI US 4610800 A 19860909 (198639)* 4p
ADT US 4610800 A US 1985-695219 19850125
PRAI US 1985-695219 19850125
AB US 4610800 A UPAB: 19930922
Drainage pipes blocked by cellulosic paper materials are unclogged by contacting the paper with a thickened fluid compsn. (pH 4.5-8.5) comprising (by wt.) 5-20% of a cellulase enzyme (I), and 0.1-1% of a non-cellulosic, water-soluble gum (II). Pref. (II) are natural or synth. gums, and include xanthan gum, gum arabic, tragacanth gum, locust bean gum, guar gum, carrageenan, pectin, dextran, propylene glycol alginate, carboxymethyl locust bean gum, carboxymethyl guar gum, fluid ethylene oxide polymers, and polyethyleneimine.
ADVANTAGE - The compsns. allow the cellulase enzyme to penetrate standing water in drains, and effectively decompose toilet paper etc.
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L3 ANSWER 7 OF 7 FROSTI COPYRIGHT 2002 LFRA
AN 500492 FROSTI
TI **Cellulase resistant cellulose paper**, film or casing, process and composition.
IN Lacoste-Bourgeacq J.-F.; Jon S.-C.
PA Viskase Corp.
SO European Patent Application
PI EP 914772 A2
AI 19981106
PRAI United States 19971112
DT Patent
LA English
SL English
AB This patent application relates to cellulose films such as sausage casings, and to processes for making foods such as sausages using these

casings. These casings have improved resistance to cellulase degradation. The exterior surface, and preferably also the interior surface, are coated with at least one protein and at least one cationic thermosetting resin. The protein is preferably beta-lactoglobulin. The coating can also be applied to cellulosic paper or film, for use as a food-packaging material.

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